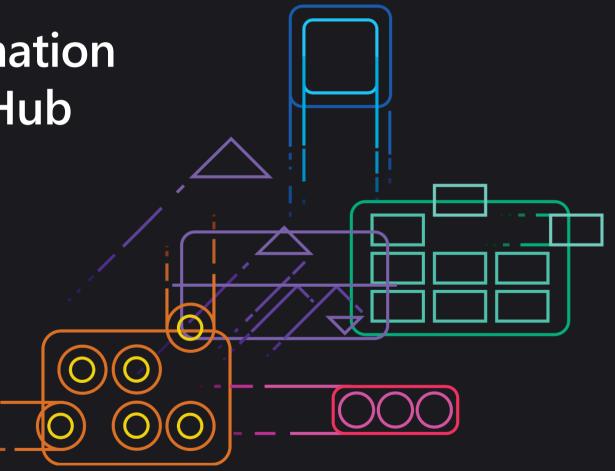




Teerachai Laothong and Sakul Jaruthanaset Digital Thailand Club



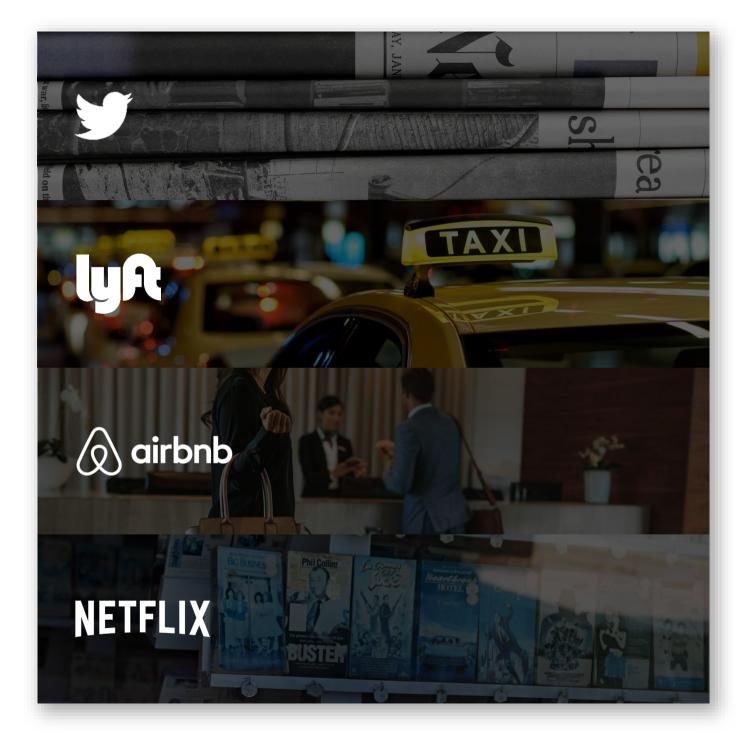
# The Challenge

50% of Fortune 500 in 2000 now replaced by organizations that use technology to deliver customer value faster, better, and cheaper

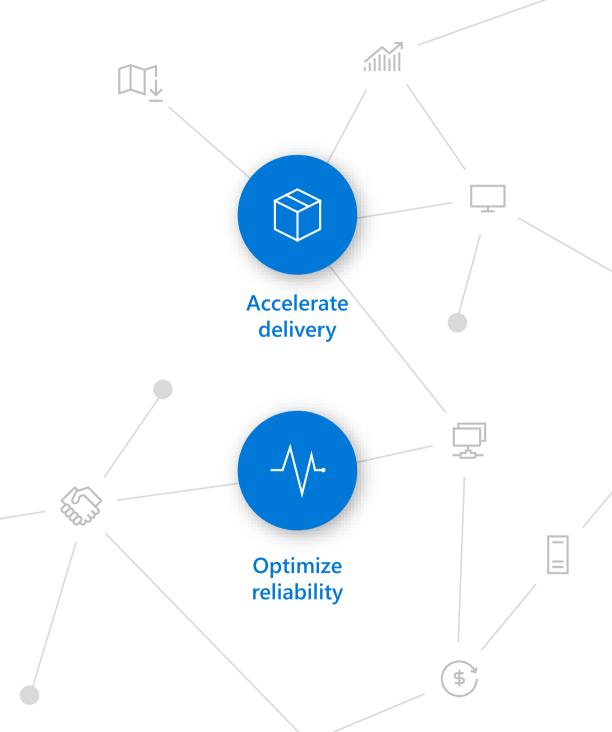
The Fortune 500 of today face the same challenge tomorrow

#### Innosight

Corporate Longevity: Turbulence Ahead for Large Organizations

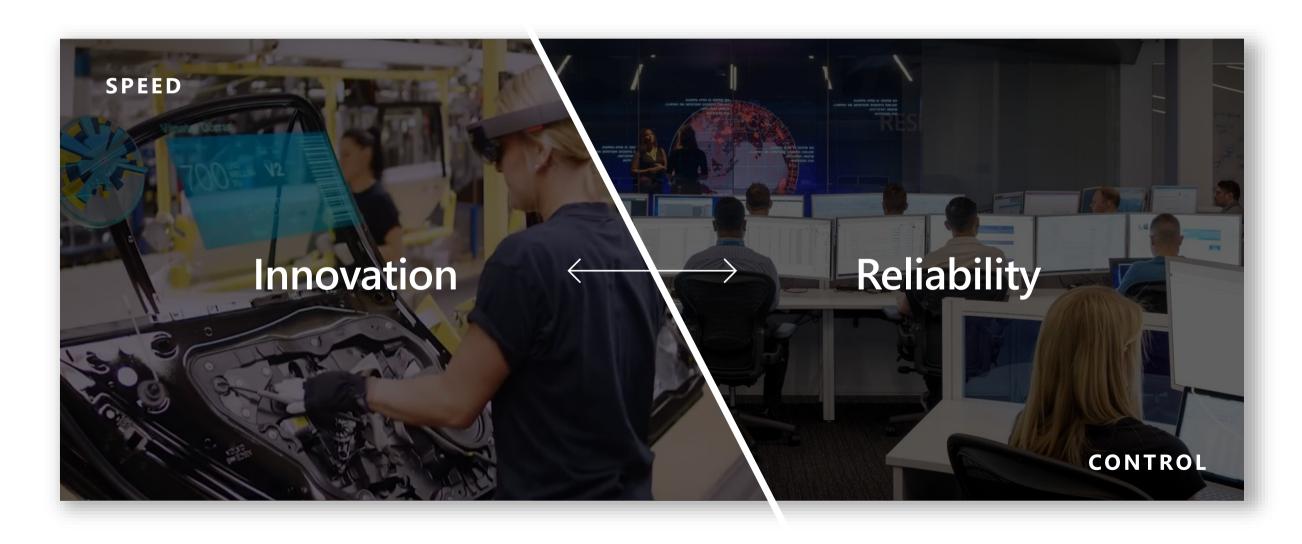


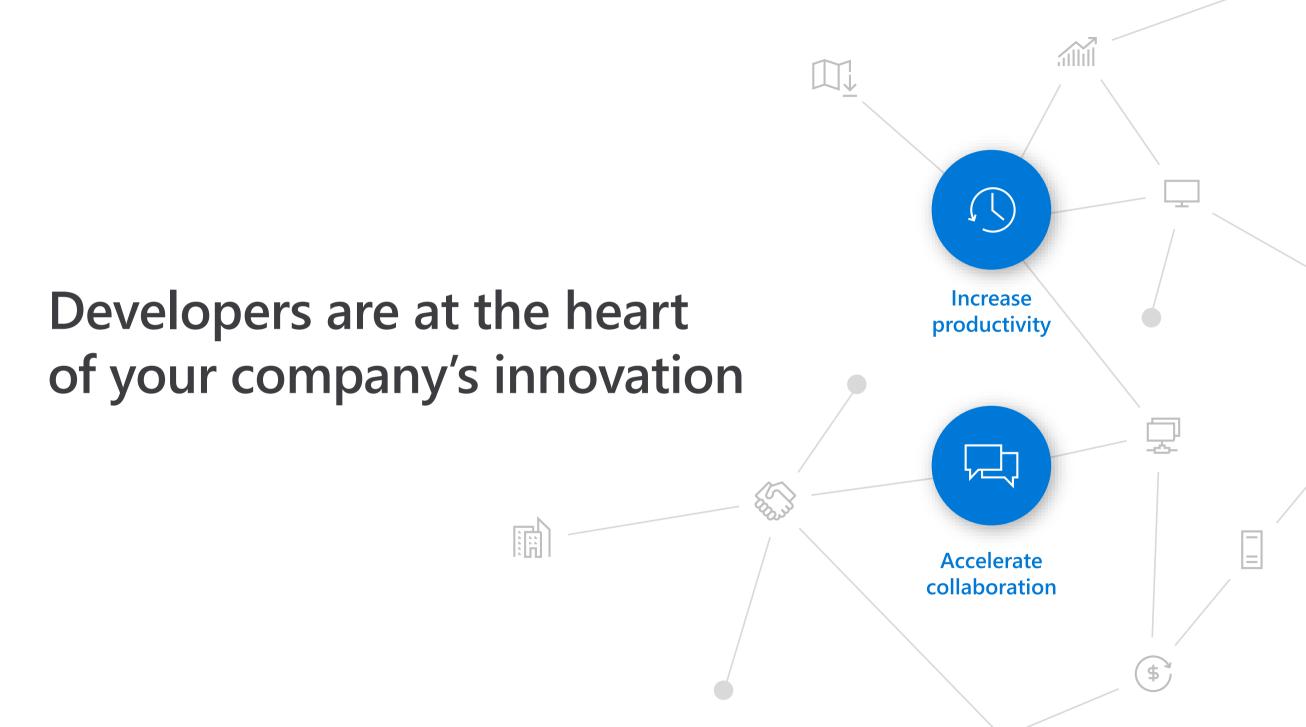
Product innovations need to reach customers quickly, and stay available



# Software delivery paradox

Speed vs. control impedes innovation

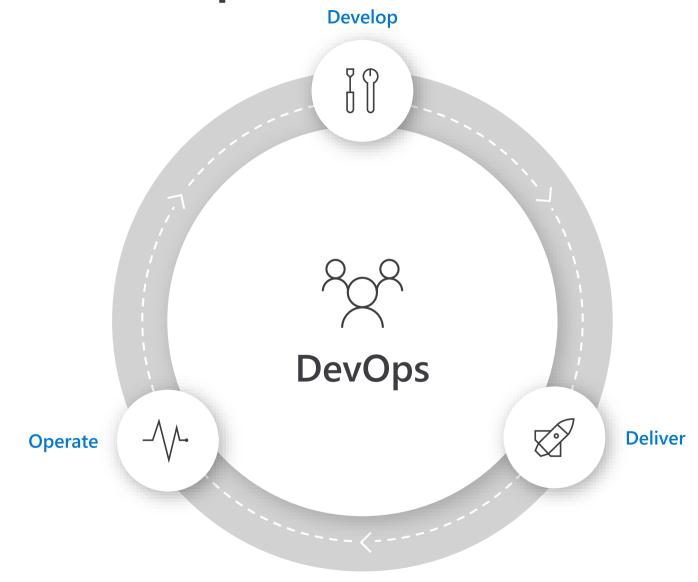




## **Accelerating Delivery with DevOps**



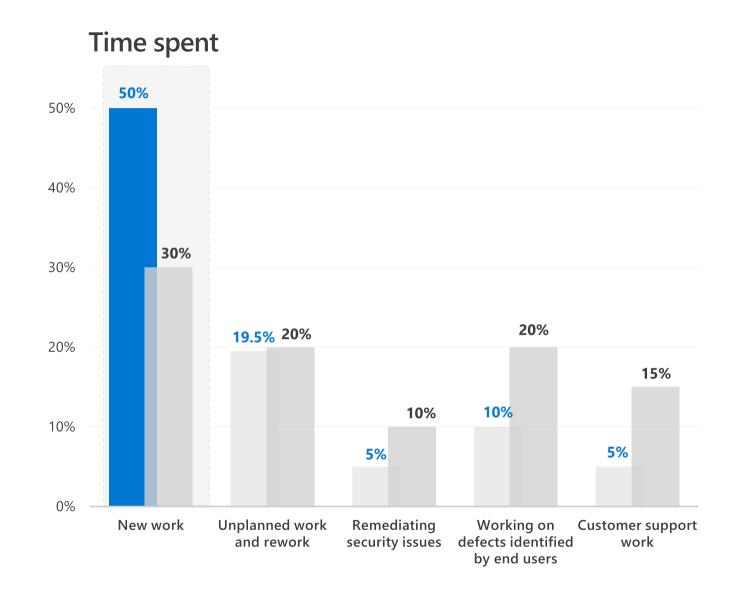
DevOps is the union of people, process, and products to enable continuous delivery of value to your end users.



# Innovation with oversight

Top performing DevOps companies spend more time innovating and less time "keeping the lights on".

The result: better products, delivered faster, to happier customers by more engaged teams





Top DevOps Performers

Low DevOps Performers

## **Our Solution**

#### Develop

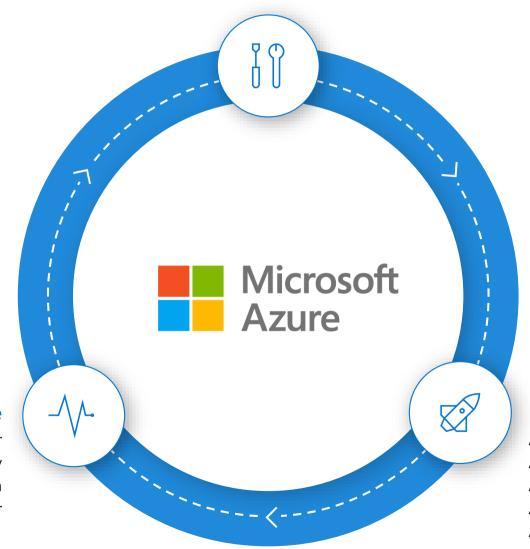
GitHub Visual Studio Visual Studio Code

# Innovate at scale. Deliver with confidence.

Microsoft Azure is the cloud with DevOps tooling built in

#### **Operate**

Azure Monitor
Azure Policy
Azure Automation
Azure Security Center



#### Deliver

Azure Boards
Azure Repos
Azure Pipelines
Azure Artifacts
Azure Test Plans
Azure Lab Services



## **Deliver with Azure DevOps**



**Azure Boards** 



**Azure Repos** 



**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 





**Azure Boards** 



**Azure Repos** 



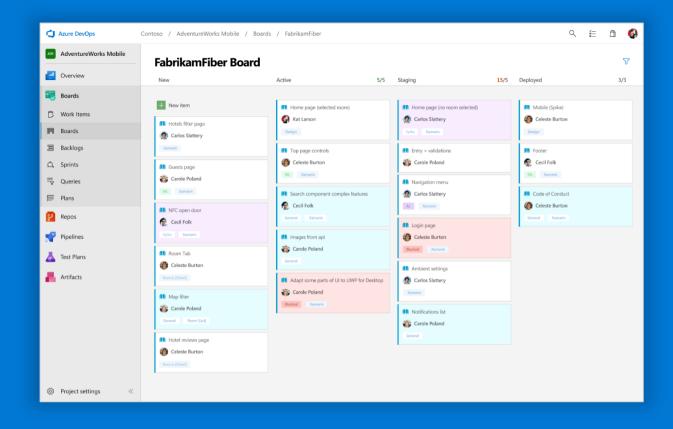
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Connecting ideas to releases

Scrum ready to help your teams run sprints, stand-ups, and plan work

Integrated with GitHub commits and pull requests

Insights into project status and health





**Azure Boards** 



**Azure Repos** 



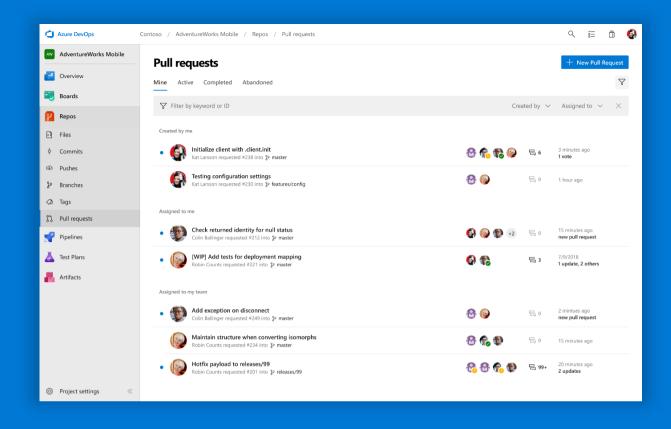
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Private Git and TFVC repos for your teams

Code review via branch pull requests

Branch policies and build validation

Easy migration path to / from GitHub





**Azure Boards** 



**Azure Repos** 



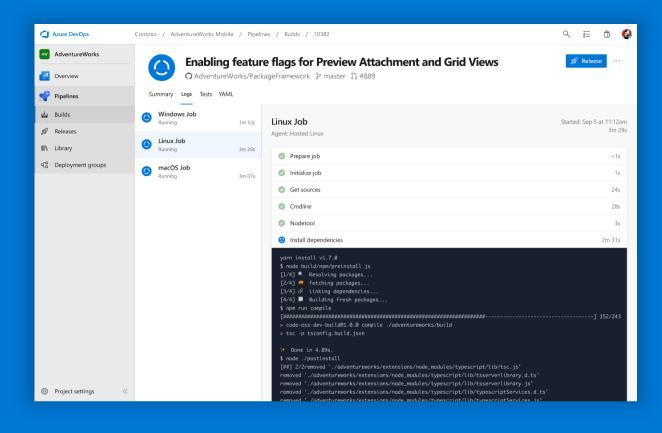
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Cloud-hosted pipelines for Linux, macOS and Windows

Any language, any platform, any cloud

Native support for containers and Kubernetes

Best-in-class for open source







**Azure Boards** 



**Azure Repos** 



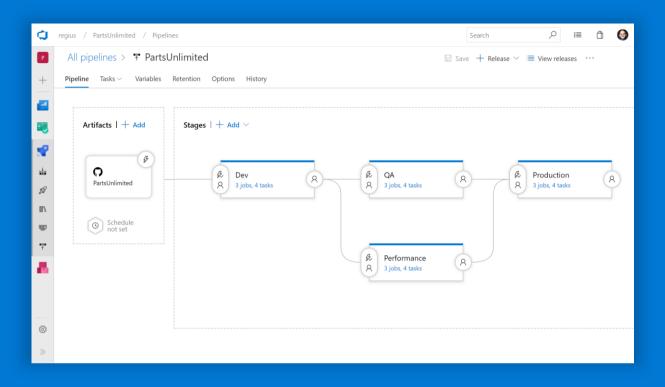
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Deploy to on-premises, ANY cloud or a hybrid of cloud and on-prem

Staged environment releases

Pre and post deployment approvals with gates to automate approval based on conditions





**Azure Boards** 



**Azure Repos** 



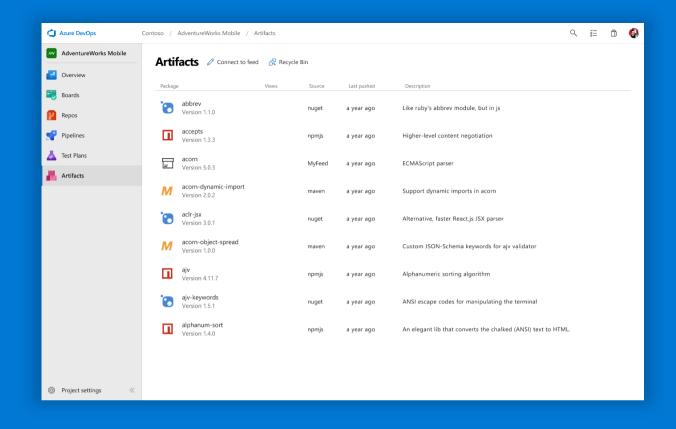
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Share code efficiently

Keep your Maven, npm, NuGet and Python packages and more in the same place

Aggregate from public registries and internal teams

Publish and track from any pipeline





**Azure Boards** 



**Azure Repos** 



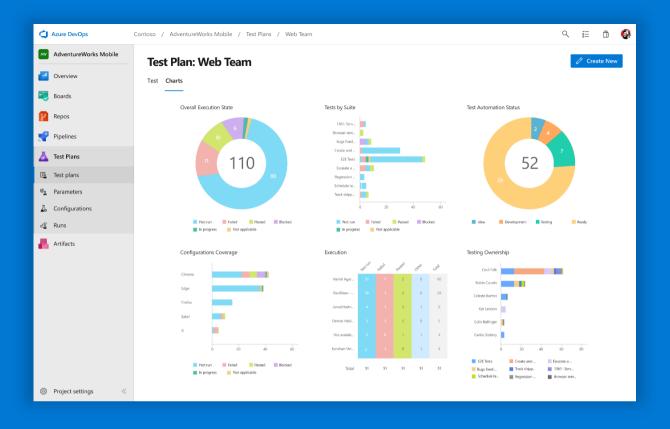
**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 



Run tests and log defects from your browser

Track and assess quality throughout your lifecycle

Capture rich data for reproducibility

Create tests directly from exploratory sessions



## **Deliver with**



**Azure Boards** 



**Azure Repos** 



**Azure Pipelines** 



**Azure Artifacts** 



**Azure Test Plans** 

# GitHub

GitHub brings the **premier** social coding workflows to your team, breaking down silos and enabling Inner Source through:

- Expertise sharing
- Cross-team collaboration
- Improved code reuse
- Increased velocity



# The #1 developer community on the planet

Most contributions 1.1B in 2018

Most developers 33M

Most Repos 100M

Most secure 5M vulnerability alerts in 2018

Home to the most important and popular open source projects on the planet

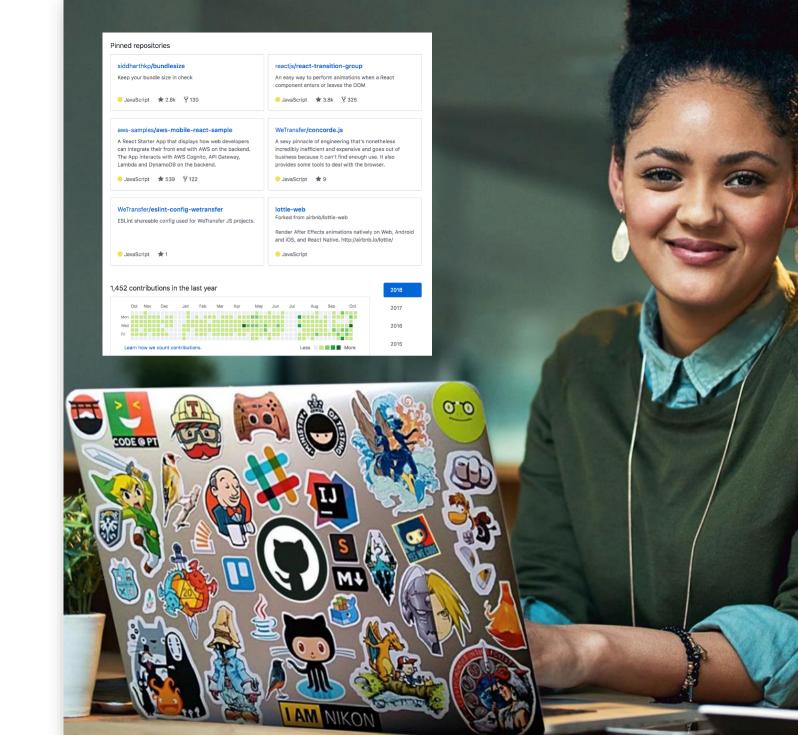


# Winning the war for talent

The world's leading companies use and contribute to open source software. It is also how they attract and retain talent

#### Developers want to:

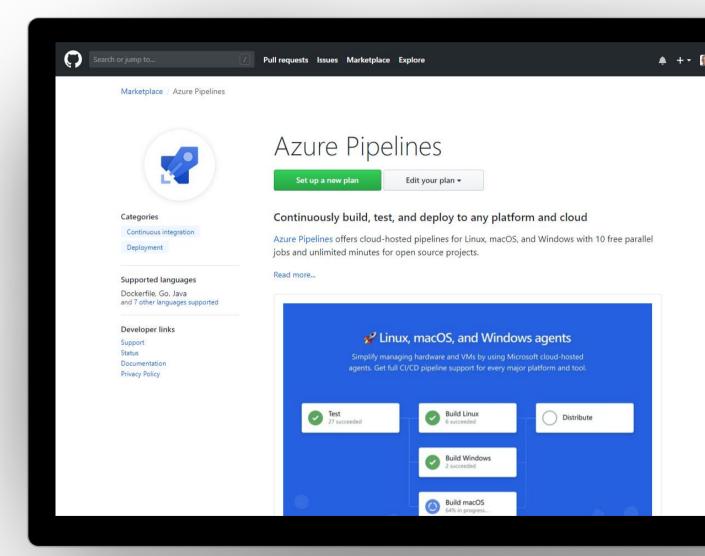
- Solve interesting problems
- Collaborate with other developers
- Grow their skills
- Use tools they love





# Azure DevOps Integrated with GitHub

Rich integration with Azure Pipelines and Azure Boards





# **Azure Pipelines**

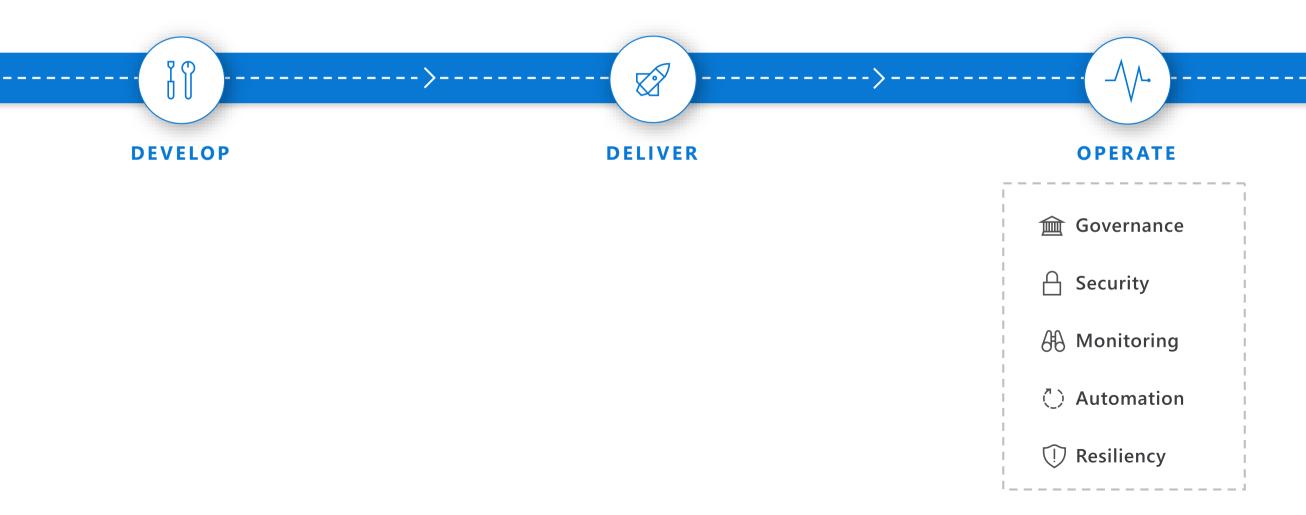
Free **unlimited** build minutes for public projects

Up to 10 free parallel jobs across Windows, Linux and macOS

Microsoft Open Source

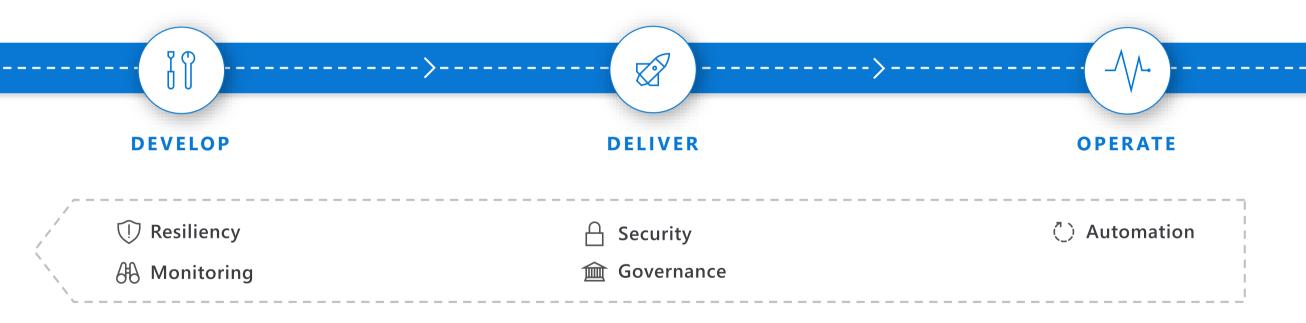
# Demo: Azure DevOps with GitHub

# Reactive operations



# Moving to proactive operations with Azure

"Shifting left"



# Deploy continuously and compliantly

Enterprise-grade security, monitoring, and management services built-in



#### Governance

Proactively apply policies and enable compliant releases

Azure Policy & Blueprints



#### **Security**

Industry leading Security with Advanced Threat Protection

> Azure Security Center



#### Resiliency

High availability and protection for VMs, apps and data

Azure
Backup & Site Recovery



#### Monitoring

Deep operational insights with rich intelligence

Azure Monitor



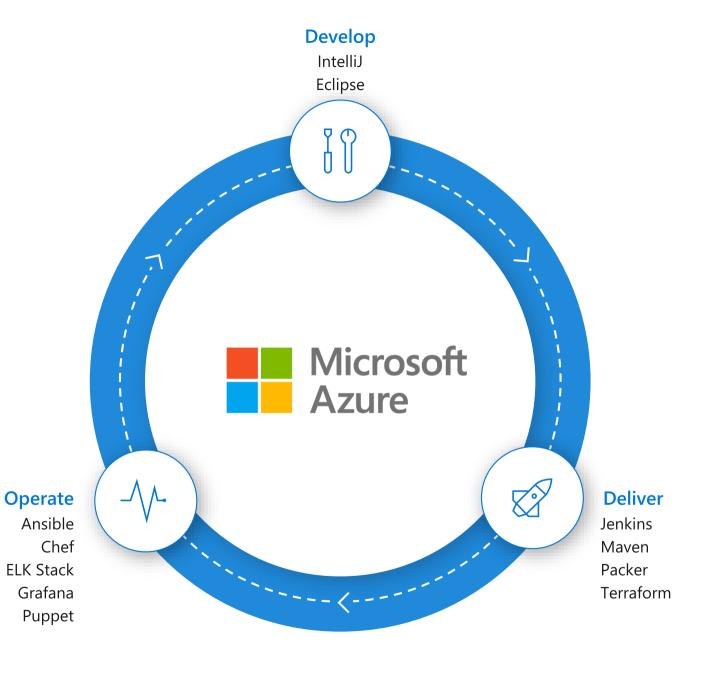
#### **Automate**

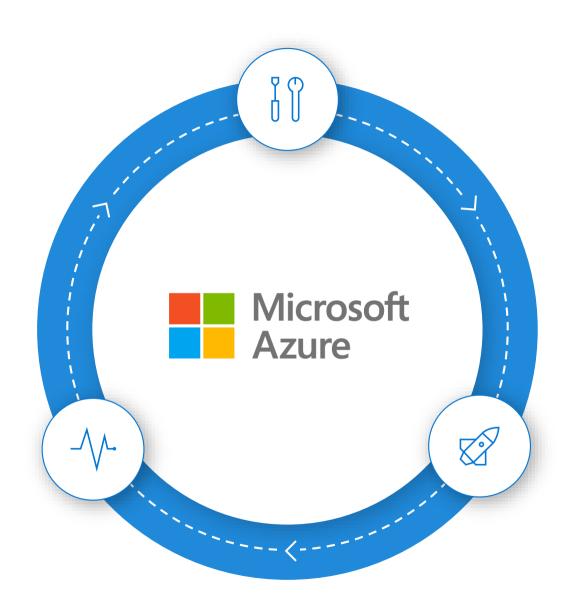
Powerful scripting, configuration and update management

Azure Automation

# Use the tools you know and love

Azure and GitHub are fully integrated with your existing tools and workflow





**Core Infrastructure** 

Compute

Security

Storage

Management

Networking

**Advanced Workloads** 

Web + Mobile

Internet of Things

Microservices

Containers

Serverless

Identity

Data + Analytics

Artificial Intelligence

**Cognitive Services** 

High Performance Computing

Azure Stack + Hybrid

The cloud with DevOps tools built in

## **Azure DevOps**



- Continued heavy investment in Azure DevOps
- Best in class CI/CD solution across the industry
- Best & most loved solution for managing development teams
- Tight integrations with GitHub
- Provide enterprise scalable package management



## Azure DevOps supports small teams and the largest enterprises



Instead of telling people to wait for 6 months for a new feature, we can give it to them in a few weeks...Our 2800 worldwide developers can use the same backlog, user stories and tests whether they're on Windows or Linux... building for iOS or Android.

## Columbia

Microsoft made it really easy to break outside the silos... and tie the DevOps process into the fulfilment of business process. Without the tools that we have today, we would not be successful.

# accenture

\*\*Speed is gained in moving to the PaaS offering of Azure DevOps. PaaS provides regularly released features and a future-proof capability, eliminating the need for Accenture to maintain infrastructure and go through upgrade cycles.\*\*



Branches sync 500 percent faster. Builds are 400 percent faster, with the typically six-hour process reduced to 90 minutes. We (now have) a highly streamlined process that operates with a few button clicks—and one-button deployment.

## DevOps at Microsoft

Azure DevOps is the toolchain of choice for Microsoft engineering with over 100,000 internal users



https://aka.ms/DevOpsAtMicrosoft

442k

Pull Requests per month

4.6m

Builds per month

28k

Work items created per day

2.4m

Private Git commits per month

3.5k

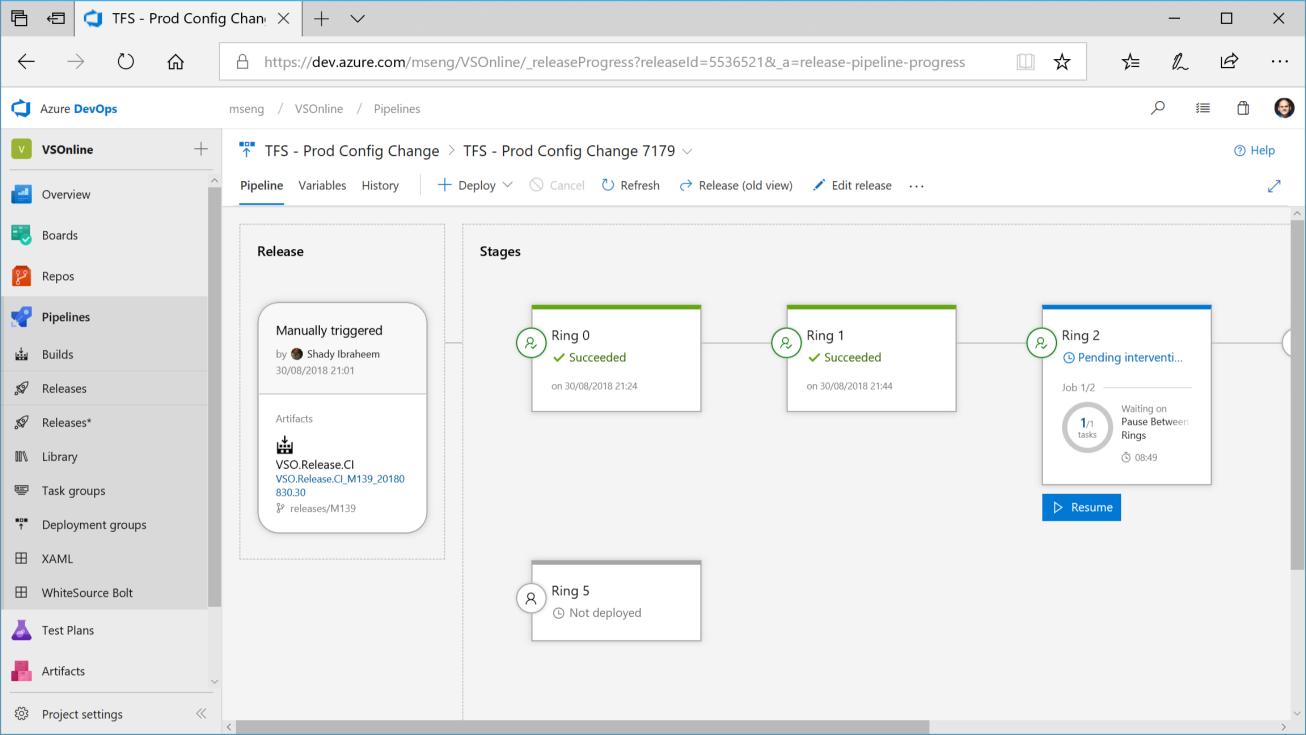
Open Source repos

12k

Employees contributing to open source

82,000

Deployments per day



## **Global Reach**

Azure DevOps has more global regions than any other cloud provider



## Migrating from On-Prem to the Cloud

### Move from Team Foundation Server to Azure DevOps and bring your data along

#### Benefits of Cloud Hosted Azure DevOps Services

- Global availability
- Hosted and maintained by Microsoft with 99.9% uptime guarantee and 24x7 support
- Immediate access to latest features
- Simplified deployment to Azure

#### **Azure DevOps Import Service**

- Fully supported high fidelity migration path
- Trusted by many large enterprises
- Now faster and easier to use





## Thank You!

Salamat Po متشکرم ευχαριστώ Grazie благодаря ありがとうございます Kiitos Teşekkürler 谢谢 ขอบคุณครับ Obrigado شکریہ Terima Kasih Dziękuję Hvala дякую Köszönöm Tak Dank u Wel Tack Multumesc спасибо Cám ơn Danke Gracias 多謝晒 Ďakujem תודה நன்றி Děkuji 감사합니다

## **Open Source Adoption**

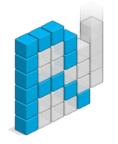






















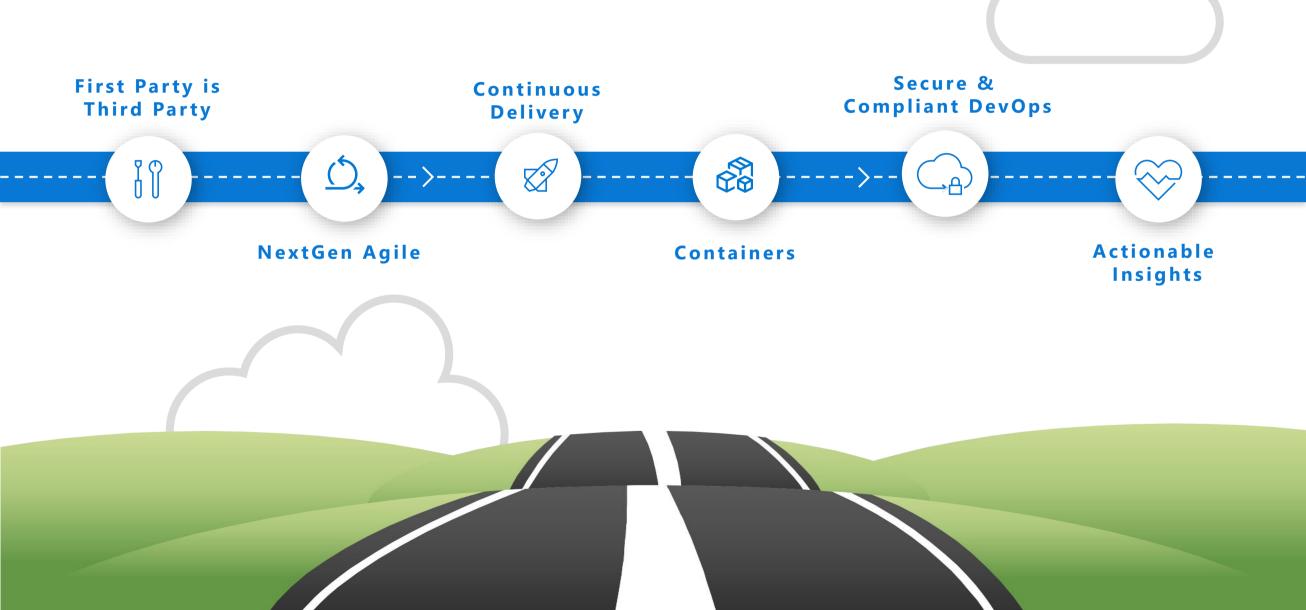








## **Azure DevOps Futures**



### **Azure DevOps Services Pricing**

#### **Open Source Projects**

### Free

#### Unlimited users and build time

- Azure Pipelines: 10 parallel jobs with unlimited minutes for CI/CD
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos

#### **Small Teams**

### Free

#### Start free with up to 5 users

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 selfhosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- Unlimited stakeholders

#### Teams of any size

## Starts at \$6

per user, per month for Boards & Repos\*

Easy pricing that grows with your team

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 selfhosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- Unlimited stakeholders
- Boards & Repos included for Visual Studio subscribers



\* 5 Boards & Repos users and 5 Artifacts users free. Pipelines with unlimited minutes, Test Plans users and additional Artifacts users also available. Please see the Azure pricing calculator for details.